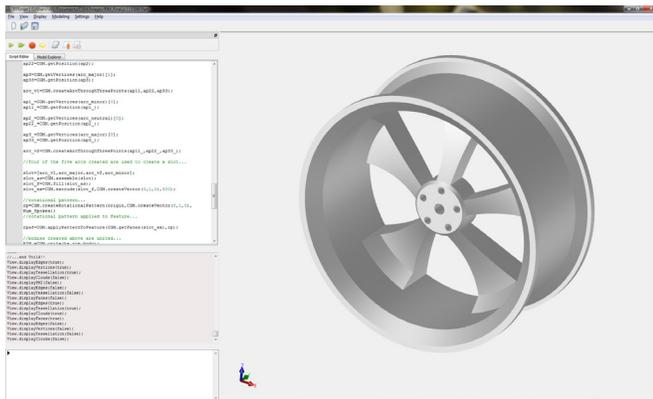


CGM CORE MODELER

DEVELOPING NEXT-GENERATION 3D APPLICATIONS PRESENTS CHALLENGES

- The steep learning curve required for traditional parametric modeling
- Difficulties in the reuse of existing data models with the complex constraints of proprietary CAD systems
- Considerable cost and effort to achieve meaningful prototype results from an initial proof-of-concept



CGM™ CORE MODELER PROVIDES A PLATFORM FOR INNOVATION

- Tighter application data integration resulting from geometric data compatibility with Dassault Systèmes V5 and 3DEXPERIENCE Platform
- Tolerant Modeling designed in from the beginning to ensure precision for natively built and imported models
- The ability to quickly generate prototype results with reusable application code to accelerate development

CGM Core Modeler enables new technical possibilities for independent software vendors, application providers and internal development organizations. The CGM Core Modeler is the core geometry and topology modeler for Dassault Systèmes' V5 and 3DEXPERIENCE Platform and has been the foundation of V5 products for over ten years, proven in the most demanding application. CGM Core Modeler is well-suited for next-generation projects, especially in areas such as CAM, metrology and point-cloud applications.

CGM CORE MODELER ENABLES EFFICIENT RE-USE OF EXISTING MODELS

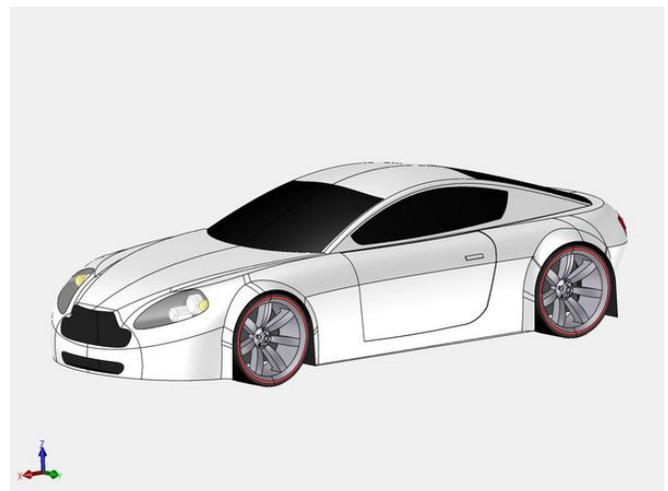
Today, designers may begin projects by leveraging existing models and data. CGM Core Modeler is architected to take advantage of this "design-by-redesign" methodology. CGM Core Modeler provides tight integration with 3D InterOp for interoperability with leading CAD formats. Native B-rep interoperability with Dassault Systèmes V5 and 3DEXPERIENCE Platform preserves full geometric and topological integrity with existing models.

CGM CORE MODELER DELIVERS PRODUCTIVITY

CGM Core Modeler's operators offer advanced capabilities to address the most challenging design and modification requirements. In addition to offering basic functionality common to all modelers for operations like tapering or filleting, CGM Core Modeler also provides innovative, well defined, powerful operators which provide high-level capabilities for addressing complex geometries and creating results in one step which would not be possible or require multiple operations in traditional modelers.

CGM CORE MODELER OFFERS TOOLS FOR EARLIER INITIAL RESULTS

CGM Core Modeler incorporates tools and technologies to enable more efficient 3D modeling. This includes 3DScript, a powerful platform for prototyping and collaboration, which provides a quick, lightweight prototyping alternative so application developers can quickly demonstrate a proof of concept and cut and paste code into their application, further accelerating development.



KEY FEATURE	BENEFIT
Geometric Modeling Kernel used in Dassault Systèmes V5 and 3DEXPERIENCE Platforms	CGM Core Modeler lets developers build upon the quality and compatibility of the geometric kernel test in the industry's most demanding application. CGM Core Modeler preserves full geometric and topological integrity with the CAD industries' most widely used data format.
Modeling Operations	CGM Core Modeler delivers a suite of the multi-dimensional modeling operators, including specialized operators, needed for application development in workflows involved in the creation and modification of complex geometries.
Native Tolerant Modeling with Tolerant Operators	Designed in from the beginning to ensure precision for natively built and imported models, tolerant modeling within CGM Core Modeler maintains model validity for imported data and through subsequent modeling operations. Whenever possible, operators strive to improve tolerances, resulting in greater precision in the results than specified in the input.
Advanced Surfacing Functionality	CGM Core Modeler includes capabilities such as free-form model design with blending, covering, and sweeping, with behavior which maintains geometry integrity.
Support for Multiprocessing/Multithreading	To help deliver optimal application performance, CGM Core Modeler allows developers to take advantage of powerful multi-core platforms.
3D InterOp Integration	3D InterOp, combined with CGM Core Modeler, delivers the highest quality data exchange between CAD formats for maximum quality of results. In addition, 3D InterOp provides an extensible translation platform to enable better data reuse and fewer problems in downstream applications.
3DScript Prototyping Platform	Delivered with CGM Modeler, 3DScript provides an easy to learn scripting environment. Through its powerful scripting interface, users can quickly prototype complex workflows.
Integration with HOOPS Visualize	HOOPS Visualize is the industry's most powerful, portable and complete graphics development component for creating or enhancing 3D applications. HOOPS Visualize helps developers accelerate the development of high performance 3D applications.

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 190,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.spatial.com.

